

Wisconsin Construction Codes Report, June 2003

Code required minimum backflow protection for fire sprinklers

System	Backflow Protection
Multipurpose piping system (One- or two-family dwellings. Plumbing water distribution with fire sprinklers)	No backflow protection required
Fire sprinkler system serving one- and two-family, using only water distribution materials, carrying potable water.	No backflow protection required
Fire sprinkler system with no chemical additives	Low hazard - Double check or double detector check
Fire sprinkler system with chemical additives in non-toxic concentrations.	Low hazard - Double check or double detector check
Fire sprinkler system with chemical additives in toxic concentrations	High hazard - Reduced pressure principle backflow preventer

For more information about backflow protection, see page 2.

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WCCR free on the Internet, <http://www.commerce.state.wi.us/SB/SB-DivPublications.html>

Plumbing, pools, and plumbing products review **applications** have changed with the May 1 code changes. The new forms are available from the S&B offices listed on page 6 or on the S&B WebSite <http://www.commerce.state.wi.us/SB/SB-DivForms.html>

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WCCR

As of July 1, 2003, paper copies of the *Wisconsin Construction Codes Report* will not be sent out free of charge



Changes to the Wisconsin Plumbing Code touched Comm 61-65, Commercial Building Code

A) Comm 61 Subchapter III (title) is amended to read: “page 6. Comm 61 (title) Subchapter III – Plan Review and Related Functions.”

B) Comm 61.39 is created to read: “page 8. Comm 61.39 Registration of cross connection control devices. Cross connection control devices to be installed in water-based fire protection systems shall be registered with the department in accordance with ch. Comm 82.” [See article below.]

C) Comm 62.2902 (1) (c) is created to read: “page 34. Comm 62.2902 (1) (c) Substitutions in IBC Table 2902.1: 1. Substitute the following wording for the water closets heading in IBC Table 2902.1: Water closets [see s. Comm 62.2902 (1) (a)]; 2. Substitute

the following wording for the drinking fountains heading in IBC Table 2902.1: Drinking fountains (see the International Plumbing Code*); 3. Substitute the following wording for the required number of bathtubs or showers in storage occupancies in IBC Table 2902.1: See the International Plumbing Code*; 4. Substitute the following wording for the required number of bathtubs or showers in factory and industrial occupancies in IBC Table 2902.1: See the International Plumbing Code*.”

* Note the Wisconsin Commercial Building Code defines the “International Plumbing Code” as Comm 81-87, The Wisconsin Plumbing Code.

As of May 1, CCCDs are registered rather than reviewed - And, new code has a glitch

As of May 1, 2003, revisions to the Wisconsin Uniform Plumbing Code changed from requiring plan review of cross connection control devices to requiring their registration. See the new code language below right: Comm 82.20(1)(c).*

While registration can be done by someone who does not have a plumbing license, installation continues to be the responsibility of a master plumber.

There is a glitch. The revised language includes registering double checks and double detector checks, and it shouldn't. Records for these devices are kept on site and they don't need registration.

*Note that cross connection control devices still need plan review when installation is intended in health care and related facilities as defined in Comm 81.01(116). Comm Table 82.20-1 defines the types of plumbing installations needing plan review submittals.

At one point, the devices were included in the draft code revisions. Later, double checks and double detector checks were dropped from one portion of the draft, but missed in another. S&B staff is preparing a code change that will eliminate the remnant language.

In the meantime, S&B will not require registration of double check or double detector checks.

If you have questions concerning cross connection control devices, contact a plumbing plan reviewer or a plumbing consultant listed on page 6 of this *WCCR*.

Comm 82.20(1)(c) *Cross connection control device or assembly registration.* The initial installation of each reduced pressure principle backflow preventer, back siphonage backflow vacuum breaker, reduced pressure detector backflow preventer, double check valve, double detector check valve, or pressure vacuum breaker, shall meet all of the following: 1. a. Except for the provisions under subpar. b., for initial installation in any building or facility, each device or assembly covered under this paragraph shall be registered with the department. b. Plan review approval for a cross connection control device or assembly issued prior to May 1, 2003 is considered in compliance with this paragraph. 2. For each device or assembly covered under this paragraph registration shall be submitted prior to the initial test.

You may search S&B computer records for Cross Connection Control Device information. See the plumbing program page, <http://www.commerce.state.wi.us/SB/SB-PlumbingProgram.html>

If you wish to receive a monthly email notifying you when the WCCR is placed on the S&B WebSite, send your email address and name to Todd Taylor, ttaylor@commerce.state.wi.us. In May, there should be a spot to sign up for the email list, on the division's HomePage, <http://www.commerce.state.wi.us/SB/SB-HomePage.html>.



**Contact information for plan review
To schedule an appointment (commercial/
multifamily buildings, pools, or plumbing):**

- S&B WebSite (buildings only):
<http://www.commerce.state.wi.us/SB/SB-DivScheduling.html>
- Fax: 24 hr. toll-free number for appointment scheduling, 877-840-9172
- Email: planschedule@commerce.state.wi.us

For application forms:

- On the S&B WebSite (choose "Forms" on left of screen): <http://www.commerce.state.wi.us/SB/SB-DivForms.html>
- Call any of the offices listed on page 10

Info about next available review

appointment: ▪ <http://www.commerce.state.wi.us/SB/SB-DivDailyDoc.html>

Info about status of plan review:

- <http://www.commerce.state.wi.us/SB/SB-DivReviewStatusSearch.html>

Electrical Q&A

Based on the 2002 National Electrical Code. For info, contact one of the S&B Consultants listed at right.



Q: In your opinion, what is the most significant change in the 2002 NEC?

A: *The rewrite of Chapter 3 with the institution of a common numbering system along with the new Articles in Chapter 4, responded Ken Mastrullo, National Fire Protection Association*

Q: I always thought that you had to have a switch for the lighting at every doorway or entrance to a room, and had to use three-way and four-way switches where there are multiple doors. Was this changed, or am I imagining it?

A: No, the NEC has never required the use of three- and four-way switches for multiple doorways. The NEC does not specify where the switches should be located. However, the use of three- and four-way devices is certainly a desirable addition and also meets the requirements for stairways. Yes, you were imagining things.

Q: Can NM cable be installed in a sleeve such as EMT to the HVAC receptacle on the roof of a building? I can't find a section in the NEC that allows this.

A: No, nonmetallic sheathed cable can be protected from physical damage where necessary in accordance with Section 334-15(B), but is not approved for installation in a wet location. One of the permitted methods indicated for physical protection is electrical metallic tubing, EMT. The question actually relates to wiring methods in a "wet" location. The intent of the questioner was to run NM cable through EMT to an outdoor junction box for a receptacle. The sleeve is providing physical protection, but the cable cannot be installed in a wet location.

Electrical Consultants

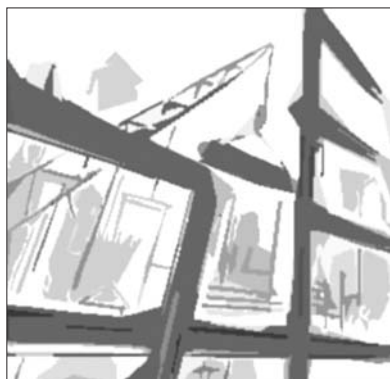
Monte Ewing Madison 608-225-3416
Tom Garvey Milwaukee ... 414-852-3696
Raymond Weber . Wis. Rapids . 715-571-1609

WISCONSIN Commercial Building Code Certification Training

****2003**

Fitchburg Fall Session Sept. 16 thru Dec. 23

*Classes will be at
the Fitchburg City
Hall 5520 Lacy
Road*



****These 15-week courses are for individuals interested in Wisconsin Commercial Building Code Inspector Certification. Course curriculum will cover the WCBC and the adopted model codes.**

Classes will be held on consecutive Tuesdays from 9:30 a.m. until 3:30 p.m. Lunch breaks will be from 12 noon until 1 p.m. Lunch will not be provided.

The cost of the 15 weeks is \$240 per attendee.

Registration forms on the WebSite,
<http://www.commerce.state.wi.us/SB/SB-DivContinuingEducation.html>

****2004 Milwaukee Winter Session January 6 thru April 13**

*Classes will be at the City of
Milwaukee Neighborhood Services
Bldg 4001 South 6th Street.*

More building code education

---"Existing Buildings Change of Use - Institutional, Health Care" June 26, 8:30 a.m. to 11:30 a.m., \$45

---"Existing Buildings Change of Use - Apartments, Dormitories, Etc." p.m. June 26, 1 p.m. to 4 p.m., \$45

Town of Summit Hall, Waukesha County,
2911 North Dousman Rd, Oconomowoc

Circle the class(es) you wish to attend. Mail copy of this page and check to: Safety and Buildings, Audrey Fries, PO Box 2689, Madison, WI 53701-2689. Keep a copy of the info for yourself. 3 continuing education credits for Commercial Buildings Inspectors.

Name

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Address

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Fiscal 7648 - # of classes x \$45 equals check amount
Personal information you provide may be used for secondary purposes. [Privacy Law, s.15.04 (l) (m)]

**Q&A about the Wisconsin
Commercial Building Code
is on the S&B WebSite**

<http://www.commerce.state.wi.us/SB/SB-CommercialBuildingsCodeAdoptionQuestions.html>

Fax or email technical code questions to:

- Commercial buildings, Comm 61-65	608-283-7402	bldgtech@commerce.state.wi.us
- Fire protection systems	608-283-7405	fireprotech@commerce.state.wi.us
- Plumbing, cross connection	608-283-7403	plbgtech@commerce.state.wi.us
- Private onsite wastewater treatment	608-283-7404	powtstech@commerce.state.wi.us
- Public swimming pools	608-283-7406	pooltech@commerce.state.wi.us
- Building and plumbings products	608-283-7407	productech@commerce.state.wi.us
- Licenses, certifications, registrations	608-283-7400	madisoncred@commerce.state.wi.us
- Manufactured/mobile homes	608-283-7401	manf-homes@commerce.state.wi.us
- One- and Two-family Dwelling Code		udctech@commerce.state.wi.us



Commercial building code requirements apply when moving a building in Wisconsin

by Jim Quast, S&B Multifamily Program Manager, jquast@commerce.state.wi.us, 608-266-9292

On occasion, an entire commercial building may be moved to another place on a property or relocated to another property within Wisconsin

How the Wisconsin commercial building code applies to such a situation involves various code requirements, but not necessarily the entire code.

Although the current code does not apply retroactively to existing buildings, there are certain code provisions that come into play.

Public sector employers can report workplace numbers using state or federal forms

At the end of 2003, public sector employers will report to the Safety and Buildings Division the same information that is provided to the federal Occupational Safety and Health Administration through the work-related injury and illness records. To do the reporting to S&B, the employers may use either the federal 301A form or the state SBD-10710 form.

Copies of the SBD-10710 form are on the S&B WebSite, <http://www.commerce.state.wi.us/SB/SB-DivForms.html>.

The OSHA forms are on their website, <http://www.osha.gov/recordkeeping/index.html>.

If you have questions please contact a S&B industrial hygienist or occupational safety inspector.

Industrial Hygienists

Tom Pritchett Harmony Grove ... 608-576-4123
Susen Trail Green Bay 715-571-4540

Public Sector Occupational Safety Inspectors

Scott Amacher Cameron 715-828-5912
Terrence Clark Stevens Point 715-571-1605
Timothy Condon Waukesha 414-852-3660
Manuel Juarez, Jr. ... Orfordville 608-235-0558
Vernon Lemke Green Bay 920-366-2782
Shirley Noltemeyer . Waunakee 608-235-0566

Some of the more significant issues include:

- A new foundation system for the building must comply with the applicable current code requirements.
- The attachment of the building to the foundation system must also conform to the applicable provisions.
- How the building is situated on the property with respect to property lines, other buildings, open space frontage, and fire department access must meet current requirements.

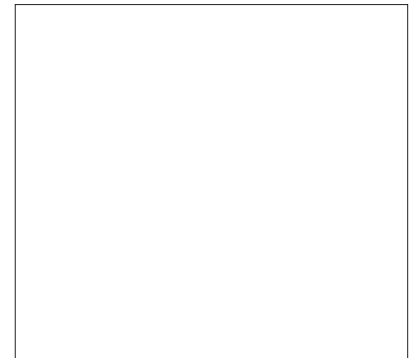
• Snow

loading requirements could change if the building were to be moved to a new location where snow loads were greater than the previous.

• Parking and access to the building for people with disabilities would also have to be accomplished within current provisions.

Note that disassembling and reassembling a building at another site is a different matter; bringing into application the entire current code.

Finally, if other alterations or changes in occupancy were to occur in conjunction with the move or relocation, the situation would become more complex. The current code provisions would apply with respect to the nature and the extent of these modifications.



Pages for individual S&B programs on the WebSite
<http://www.commerce.state.wi.us/SB/SB-DivProgramsListed.html>

Safety and Buildings Offices

Green Bay Office
2331 San Luis Pl #150
Green Bay WI 54304
920-492-5601
Fax 920-492-5604
planschedule@commerce
.state.wi.us

Hayward Office
10541N Ranch Rd.
Hayward WI 54843
715-634-4870
Fax 715-634-5150
planschedule@commerce
.state.wi.us

La Crosse Office
4003 North Kinney
Coulee Road
LaCrosse WI 54601
608-785-9334
Fax 608-785-9330
planschedule@commerce
.state.wi.us

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.state.wi.us

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1340 E Green Bay St #300
Shawano WI 54166
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Fax 715-524-3633
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Waukesha Office
141 NW Barstow St, 4th flr
Waukesha WI 53186
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Fax 262-548-8614
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.state.wi.us

Elevator Inspectors

David Holmes	Eau Claire	715-828-5901
Jim Kreuzer	Tomah	608-235-0603
Timothy Marty	Appleton	920-428-9422
James Pacala	Woodruff	715-296-2906
George Poblocki	Amherst	715-340-0109
Roger Robbins	De Pere	920-366-2470
Ted Stinson	Waukesha	414-852-3627
Frank Wozniak	Waukesha	414-315-8102
Joe Hertel, Superv.	Madison	608-266-5649

Fire Protection Systems

Keith Glaunert	Waukesha	262-548-8604
Lynne LeCount	Green Bay	920-492-5604
Bill Sullivan	Madison	608-266-9643

POWTS Wastewater Specialists

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Matthew Janzen	Stevens Point	715-345-5336
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Harold Stanlick, Superv.	Waukesha	262-521-5065

Public Swimming Pool Reviewer

Glen Jones	Madison	608-267-5265
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Industrial Hygienists

Tom Pritchett	Harmony Grove	608-576-4123
Susan Trail	Green Bay	715-571-4540
Dave Vriezen, Superv.	Madison	608-261-2503

Plumbing Consultants

Tom Braun	Stevens Point	715-340-5387
Don Hough	Hayward	715-634-4804
Tim Joyce	Madison	608-235-0557
Don Oremus	Pelican Lake	715-584-2007
Jim Zickert	Eldorado	920-948-7336
Harold Stanlick, Superv.	Waukesha	262-521-5065

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Herman Delfosse	La Crosse	608-789-5535
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David Homan	Racine	262-424-1471
Duane Leetch	Cornell	715-559-8817
James Markiewicz	Appleton	920-428-9423
Terry Waldbillig	Waukesha	414-303-8575
Jon Wolf	Lake Mills	920-723-0032
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Rick Merkle, Superv.	Madison	608-266-3037

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Joe Hertel, Superv. Madison 608-266-5649

Specialty Telephone Contacts

Agent Municipalities Henry Kosarzycki 262-548-8615
Barrier Free Access Donna Stilen 262-548-8609
Codes Sales 800-362-7253
Credentialing 608-261-8500
Elevators Brian Rausch 262-521-5444
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Hospitals & Nursing Homes, DHFS 608-266-3878
Lighting Randy Dahmen 608-266-3162
Manufactured Dwellings Gary Ekes 608-575-0967
Mobile/Manufactured Homes 608-264-9597
Permits Operate/Invoicing . Barb Lasek 608-266-7548
Plan Review Status S&B offices listed on page 6
Refrigeration Mike Verhagen 262-548-8617
Structural Steel Welding Mike Verhagen 262-548-8617
Swimming Pool Review Glen Jones 608-267-5265
Uniform Dwelling Code Leroy Stublaski 608-267-5113
Teletypewriter (TTY) 608-264-8777
Training, con education Henry Kosarzycki 262-548-8615

Building Inspectors, Commercial/UDC

Leonard Alexander Reedsburg 608-235-0582
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Teresa Black Hayward 715-634-8114
Nicholas Charles La Crosse 608-789-5657
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Emil Jensen Green Bay 920-822-2915
Chris Luster Prairie du Chien... 608-235-0581
Charlotte Martin Edgerton 608-235-0579
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Sam Solberg Stevens Point 715-345-5226
Lawrence Weede Lake Geneva 262-949-4300
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Brian Ferris Supervisor 608-785-9335

Plumbing Products Reviewers

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Lee Finley Madison 608-261-0450
Glen Schlueter Madison 608-267-1401



Sample S&B email address:
mewing@commerce.state.wi.us

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Shirley Noltemeyer Waunakee 608-235-0566
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Minh Tran 920-492-7730
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Jack Miller 608-785-9348
Jon Molzahn 608-785-9344
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ed. Or, call the Credentialing Unit, 608-261-8500. Or, check the S&B WebSite, <http://www.commerce.state.wi.us/SB/SB-HomePage.html>, choose "Credential Status Check," at left.



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